

(Translation)

Case: Japanese Utility Model Laid-Open Publication No. 26730/1992

Title: INK-JET PRINTER

Applicant: Kabushiki Kaisha Seikosha, Japan

Claims:

1. An ink-jet printer comprising a bubble-trapping chamber disposed intermediate an ink flow channel extending from an ink tank to a printing head, wherein  
the bubble-trapping chamber is opened outside through a porous film which is permeable to air but impermeable to ink.
2. The ink-jet printer according to claim 1, wherein  
a sidewall defining the bubble-trapping chamber is formed of a damper member which absorbs a pressure variation of the bubble-trapping chamber.
3. The ink-jet printer according to claim 2, wherein  
the damper member is formed of the porous film.

Brief Description of the Drawings:

Fig. 1 is a sectional view showing an ink-jet printer according to the present invention;

Fig. 2 is side view of a bubble-trapping apparatus of another embodiment;

Fig. 3 is a sectional view taken along the III-III line of Fig. 2;

Fig. 4 is a side view of a bubble-trapping apparatus of a further embodiment;

Fig. 5 is a side view taken along the V-V line of Fig. 4; and Figs. 6 to 9 are sectional views each showing a multiplied structure formed by a porous film and other films.

2 ... printing head

10 ... ink bag (ink tank)

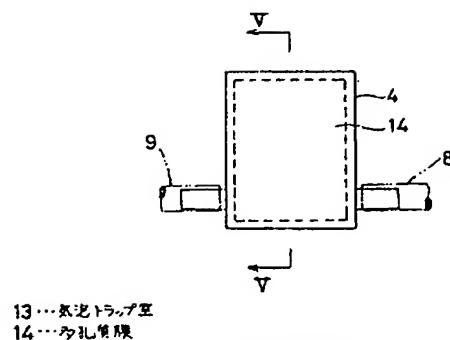
13 ... bubble-trapping chamber

14 ... porous film

15 ... film (damper member)

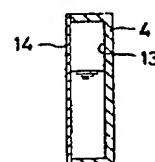


第4図

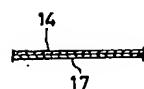


13…気泡トラップ室  
14…多孔質膜

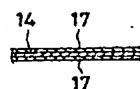
第5図



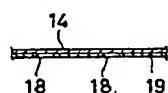
第6図



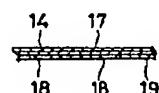
第7図



第8図



第9図



14…多孔質膜